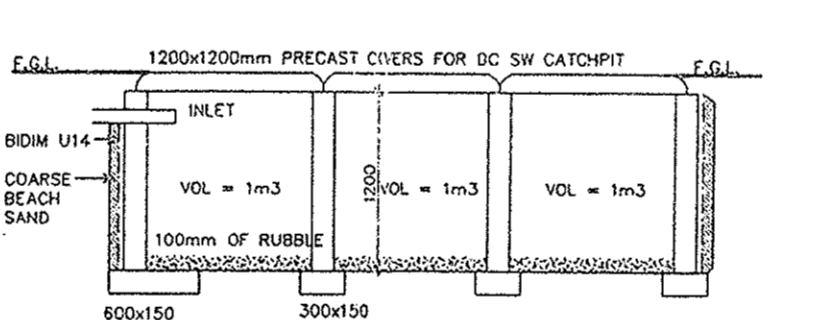
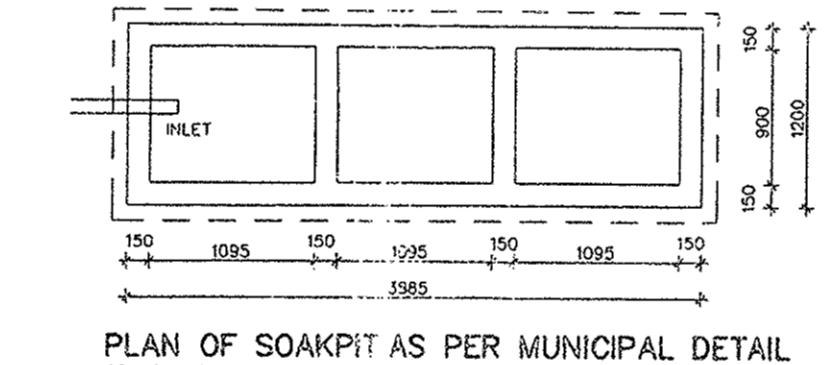


NOTE GLAZING TO ALL SHOWERS TO COMPLY WITH PART 2 of SANS 10400  
17.01.14  
GLAZING TO BE MIN 6mm TOUGHENED SAFETY GLAZING  
17.01.14

NOTE WASTE WATER FROM POOL TO COLLECT INTO SITE SEWER RETICULATION VIA A DECAT RESERVE TANK  
17.01.14



**SOAKPIT CALCULATIONS:-**  
HOUSE (INCL PAVING + COV RTIO) = 288.00sqm  
DRIVEWAY = 139.38sqm  
O/BLDG COURTYARD + GARAGE = 85.38sqm  
TOTAL = 512.74/40 = 12.82 1/3m3  
1m3 FOR EVERY 10sqm OF HARDENED / COVERED AREA.  
SOAKPITS TO BE A MIN OF 4.5m AWAY FROM BUILDINGS AND / OR SITE BOUNDARIES.

**XA CALCULATIONS:-**

**A. ENERGY EFFICIENCY IN BUILDINGS - PART XA OF SANS 10400.**

- WINDOWS/DOORS**
- W1 = 1.8sqm
  - W2 = 1.44sqm
  - W3 = 1.44sqm
  - W4 = 0.54sqm
  - W5 = 1.44sqm
  - W6 = 0.54sqm
  - W7 = 1.44sqm
  - W8 = 1.8sqm
  - W9 = 1.44sqm
  - W10 = 1.08sqm
  - W11 = 0.54sqm
  - W12 = 1.08sqm
  - D1 = 6.3sqm
  - D2 = 2.94sqm
- NET FLOOR AREA = 170.98sqm (excl. garage, store room & cov patio)
  - TOTAL GLAZING AREA = 25.53sqm
  - 15% OF NET FLOOR AREA = 25.65sqm (MIN ALLOWABLE)
  - CLIMATIC ZONE IS 5.
- GLAZING AREA < MIN ALLOWABLE  
25.53 < 25.65  
COMPLIES, THEREFORE NO CALCULATION REQUIRED.

**B. LIGHTING - ENERGY DEMAND AND ENERGY CONSUMPTION.**

- EN-SUITE:-**
- CLASSIFICATION OF OCCUPANCY = H4.
  - TOTAL FLOOR AREA = 210.05sqm.
  - MAX ENERGY DEMAND = 5WATTS/M2.
  - MAX ENERGY CONSUMPTION = 5KILOWATTS/HOUR/M2.
  - ENERGY DEMAND = 5WATTS/M2 x 210.05 = 1050.25WATTS (MAX ENERGY DEMAND)
- ASSUME EN-SUITE/BATHROOMS IS 12WATTS  
4 x 12WATTS = 48WATTS
- ASSUME BEDROOMS IS 10WATTS  
17 x 10WATTS = 170WATTS
- ASSUME LIVING AREAS IS 10WATTS  
29 x 10WATTS = 290WATTS
- TOTAL WATTS = 508WATTS
- ACHIEVED DEMAND 508WATTS < 1050.25WATTS.
6. ENERGY CONSUMPTION = 5KILOWATT/HOUR/M2 x FLOOR AREA  
5 x 210.05 = 1050.25KILOWATT HOURS (ANNUAL)
- ASSUME LIGHT USAGE  
MORNINGS 5:30-8:30 = 3 HOURS  
EVENINGS 5:30-8:30 = 4 HOURS  
ANNUAL LIGHT USAGE = 5HRS x 7 DAYS x 52 WEEKS = 1820 HOURS PER YEAR
- ANNUAL CONSUMPTION = 508WATTS x 1820 HOURS = 924.56KILOWATT/HOUR
- ACHIEVED DEMAND 924.56 < 1050.25 KILOWATT/HOUR

**C. ROOF INSULATION.**

- OUTDOOR AIR FILM = R VALUE = 0.03.
- ROOF MATERIAL = CLAY TILES = R VALUE = 0.02.
- ROOF/CEILING AIR SPACE = R VALUE = 0.16.
- 100mm AEROLITE INSULATION = R VALUE = 2.50.
- RHINOBOARD CEILING = F. VALUE = 0.06.
- INDOOR AIR FILM = R VALUE = 0.11.
- TOTAL R VALUE = 2.90K/WATT.
- MIN REQUIRED TO ACHIEVE IN CLIMATIC ZONE 5 = 2.7K/WATT, THEREFORE COMPLIES.

**D. HOT WATER SUPPLY.**

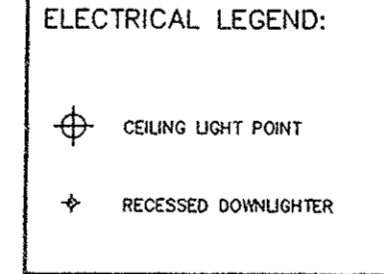
- No. OF PEOPLE = 8
- VOLUME OF HOT WATER USED: 120L/PERSON/DAY.
- TOTAL VOLUME OF HOT WATER USED PER DAY: 8x120L = 960L
- ANNUAL HOT WATER USAGE: 960x365 DAYS = 350400L (350.4)
- 50% OF 350.4L (175.2L) TO BE PROVIDED BY MEANS OF A HOT PUMP.

**E. EXTERNAL WALLS.**

- 4.4.3.2 (a) DOUBLE BRICK MASONRY (230mm) COLLAR-JOINTED WALL WITH NO CAVITY, PLASTERED INTERNALLY AND EXTERNALLY.

**POOL NOTES:**  
EARTH LEAKAGE PROTECTION FITTED TO ELECTRICAL SUPPLY.  
PRECAUTION TO BE TAKEN AGAINST CONDENSATION.  
PUMP CHAMBER TO HAVE ADEQUATE DRAINAGE.  
ELECTRICAL APPARATUS TO BE HOUSED, PRECAUTION TO BE TAKEN AGAINST FLOODING AND SEEPAGE.  
EXCESS SOIL TO BE SPREAD ON SITE.  
BACKWASH WATER DRAIN TO EXISTING SEWER VIA A BREAK PRESSURE TANK VIA A MH.  
POOL TO COMPLY WITH PART D OF SANS 10400-1990.

**GENERAL NOTES:**  
ALL WORK TO BE IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS SANS 10400-A:2010, AND TO COMPLY WITH LOCAL AUTHORITY BY-LAWS.  
NO DIMENSIONS TO BE SCALED.  
ALL DIMENSIONS TO BE CHECKED ON SITE AND ANY DISCREPANCIES REPORTED TO THE ENGINEER/ARCHITECT PRIOR TO ANY WORK BEING EXECUTED.  
CONTRACTOR TO CONFIRM ENTRANCE LEVELS AND FLOOR LEVELS PRIOR TO COMMENCEMENT OF WORK AND TO ENSURE THAT ALL LEVELS ARE CORRECT BEFORE COMMENCING ANY BUILDING WORK.  
ALL FOUNDATIONS AND STRUCTURAL ITEMS TO ENGINEER'S DETAIL.  
ALL GRABRAGE TO COMPLY WITH SANS 10400-P:2010, AND TO CONNECT TO EXISTING SITE SEWER RETICULATION.  
ALL STORMWATER TO COMPLY WITH SANS 10400-R:2011, AND TO CONNECT TO EXISTING STORMWATER RETICULATION ON SITE.  
ALL GLAZING TO COMPLY WITH SANS 10400-N:2010.



APPLICATION IN PRINCIPLE  
No. REL 1263/11/2013  
Sheet: 12

ETHEKWINI MUNICIPALITY  
LAND USE MANAGEMENT-CENTRAL REGIONAL OFFICE  
NAME: GRANTED  
SIGNATURE: [Signature]  
DATE: 20/11/17  
This does NOT constitute an approval. In terms of the NBR (Act No. 103 of 1977). This authority does not exempt the application from compliance with any other statutory requirements or any other applicable law.

SHEET COPY  
ETHEKWINI MUNICIPALITY (CENTRAL)  
No 109 12 13  
APPLICATION NO.

BUILDING APPLICATION  
APPROVED in terms of Section 1 of the National Building Regulations and Planning Standards Act No. 103/1977  
DATE: 20/11/17  
LOCAL AUTHORITY: [Signature]  
This plan is approved on the basis of the information shown hereon. Attention is drawn to the attached documentation & that this approval shall lapse 24hrs after the date of approval date, unless the erection of the building in terms of NBR Act 103/1977 is commenced.

OWNER'S SIGNATURE: [Signature]  
FULL NAME: 6666 Patrick Kelly  
DATE: [Date]  
CONTACT TEL: 0834430283

OWNER'S SIGNATURE: [Signature]  
FULL NAME: Kevin Robert Scott  
DATE: [Date]  
CONTACT TEL: 0832584234

ARCHITECT'S SIGNATURE: [Signature]  
DATE: 04.09.2013

SHARON LABUSCAGNE  
31 HYPATHIA ROAD  
DURBAN NORTH  
4051  
CELL: 082 456 9966

**JOB**  
PROP ADDS & ALTS TO  
ERF 2351 DURBAN NORTH  
AT 37 ST ANDREWS DRIVE

FOR K R SCOTT AND G P REILLY

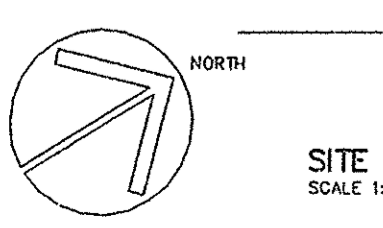
DATE: JULY 2013  
SCALE: 1:100

**DRAWING**  
SUBMISSION DWG : SITE & FLOOR  
PLANS, SECTIONS & ELEVATIONS

JOB NO. DRAWING NO. REV. NO.  
37STA SDPLAN1/2 \*

OWNERS NAME: JULIE LYNN CONSTANTINO ADDRESS: 35 ST ANDREWS DR. CONTACT No: 082 55 192 42 ID No: 5212270003086 SIGNATURE: [Signature]	OWNERS NAME: MEGAN ROSE GOSCHEN ADDRESS: 32 ST ANDREWS DRIVE CONTACT No: 0836278766 ID No: 5706100023087 SIGNATURE: [Signature]	OWNERS NAME: MIKSEEN MOHAMMED SAHEED ADDRESS: 39 ST ANDREWS DRIVE CONTACT No: 0837863001 ID No: 7310145091084 SIGNATURE: [Signature]
OWNERS NAME: ADDRESS: CONTACT No: ID No: SIGNATURE:	OWNERS NAME: ADDRESS: CONTACT No: ID No: SIGNATURE:	OWNERS NAME: ADDRESS: CONTACT No: ID No: SIGNATURE:

<b>AREA SCHEDULE</b>	
SITE AREA	1133.00sqm
ALLOWABLE F.A.R	N/A
PROPOSED F.A.R.	60.81sqm
EXISTING F.A.R.	155.59sqm
TOTAL F.A.R.	216.40sqm
AVAILABLE F.A.R.	N/A
ALLOWABLE COVERAGE (40%)	453.20sqm
PROPOSED COVERAGE	149.84sqm
EXISTING COVERAGE	166.74sqm
TOTAL COVERAGE	316.58sqm
AVAILABLE COVERAGE	136.82sqm
E4 DWELLING	138.09sqm
E1 COVERED ENTRANCE	11.15sqm
E4 O/BUILDINGS	17.50sqm
PROP BEDROOM WING	60.81sqm
PROP COVERED PATIO	40.39sqm
PROP DOUBLE GARAGE	48.44sqm



SITE AND GROUND FLOOR PLAN  
SCALE 1:100

ST ANDREWS DRIVE